

- 12 -

CLAIMS

1. A method for completing the manufacturing phases of an IC card performing a final and secure personalization phase of a semi finished IC card (1) including a non volatile memory portion (4) wherein
5 personalization data and information are stored in secret allocations, and comprising at least the following steps:
 - storing an algorithm inside said non volatile memory portion (4) processing data as an finite-state machine (10);
 - enabling an entity different from the card manufacturer to access
10 said algorithm for storing all necessary data and information required by said personalization phase, according to a designated application field of said IC card
 - performing a security authentication step before enabling said algorithm to receive said data and information; and characterized by:
15 - enabling said algorithm to receive said data and information;
 - storing said data and information in secret memory locations of said non volatile memory portion (4) according to a predetermined data structure and an access procedure hidden to said entity;
 - newly allowing the enabling phase of said algorithm in case of a
20 wrong enabled personalization phase.
2. Method according to claim 1 wherein different personalization commands corresponding to different memory location where to store data are included in said non volatile memory portion (4).
3. Method according to claim 1 wherein said finite-state machine (10)
25 processes said data and information according to an event triggered by a command sent to a microprocessor (2) of the IC card.
4. Method according to claim 3 wherein the transitions from one state to another state of said finite-state machine (10) are activated by the following predetermined events:

- 13 -

- Personalization Process Enabling;
 - Security Authentication;
 - Data Sending;
 - Personalization Completion;
- 5 5. Method according to claim 4 wherein each of said event is triggered by a specific set of commands sent to the smart card; said commands being:
- ENABLE PERSO
 - VERIFY PERSO CODE
 - PUT PERSO DATA
- 10 • LOCK PERSO
6. Method according to claim 5 wherein said ENABLE PERSO command allows the transition on a READY state wherein the IC card is enabled to receive the commands specified for the data personalization.
7. Method according to claim 6 wherein said READY state is a transition state and only said VERIFY PERSO CODE command is accepted.
- 15 8. Integrated Circuit card including means for providing a specific personalization of the card according to claim 1.